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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/933,321	08/20/2001	Vikram Kapoor	CS11343	7056
20280	7590	03/29/2007	EXAMINER	
MOTOROLA INC 600 NORTH US HIGHWAY 45 ROOM AS437 LIBERTYVILLE, IL 60048-5343			AMINZAY, SHAIMA Q	
			ART UNIT	PAPER NUMBER
			2618	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/29/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No. 09/933,321	Applicant(s) KAPOOR ET AL.	
	Examiner Shaima Q. Aminzay	Art Unit 2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 9/21/06.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-7 and 16-20 is/are allowed.
- 6) ☒ Claim(s) 11 and 13 is/are rejected.
- 7) ☒ Claim(s) 8-10, 12, 14 and 15 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 September 2001 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

Applicant's Pre-Appeal-Brief Review Request filed on September 21, 2006 have been fully considered, the Pre-Appeal Brief Review decision is to reopen prosecution.

1. Response to applicant's arguments with respect to claims 1-7, 11, 13, and 16-20 is moot in view of indicating that they are allowable subject matter as stated in the previous office action.
2. Response to applicant's arguments with respect to claims 8-10, 12, and 14-15 is **moot** in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 8-9, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sadlre (Sadler, U. S. No. Patent No. 6058,319) in view of Tuoriniemi (Tuoriniemi et al., U. S. No. Patent No. 5,978,689).

Regarding claim 8, Sadlre discloses an audiocassette adapter for coupling a mobile electronic device to an audiocassette player (*Figures 1-3, column 1, lines 5-8, lines 44-57, columns 2, lines 12-16, lines 34-44, lines 64-67, column 3, lines 1-6, lines 66-67, column 4, lines 1-21, the cassette (audiocassette) adapter for connecting the mobile device (mobile electronic device) to an audio cassette player*), comprising:
a cassette head coupling device (*column 1, lines 44-57, column 3, lines 34-43, lines 66-67, column 4, lines 1-35, the cassette head coupling*);
a mobile electronic device input coupled to the cassette head coupling device (*column 2, lines 34-67, the mobile input connects to the cassette head (cassette head) device*);

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an audiocassette player *[command]* signal generator (*column 1, lines 47-57, column 7, lines 34-40, column 8, lines 17-22, the audio cassette player signal generating*);

a control signal output coupled to the audiocassette player *[command]* signal generator (*column 1, lines 47-57, column 2, lines 47-63, column 3, lines 24-43, column 4, lines 66-67, column 5, lines 1-3, column 6, lines 56-63, column 7, lines 34-40, column 8, lines 17-22, the output control signal connected (coupled) with the audio cassette player signal generator*).

Sadlre does not specifically teach “command”, however, Sadlre teaches generating signals in response of control signal indicating audio cassette player (*column 1, lines 47-57, column 2, lines 47-63, column 3, lines 24-43, column 4, lines 66-67, column 5, lines 1-3, column 6, lines 56-63, column 7, lines 34-40, column 8, lines 17-22, having audio cassette player signal generator, the output control signal coupling audio cassette player signals (given instructions or commands) to perform “play” or terminating play (stop play) and other typical cassette player functions*).

In a related art dealing with mobile communication device coupling audio cassette player (*column 1, lines 8-10, lines 25-29, column 10, lines 58-60, column 12, lines 33-42*), Tuoriniemi teaches audio cassette player command (*column 1, lines 8-10, lines 25-29, column 10, lines 58-60, column 12, lines 33-42*).

It would have been obvious to one of ordinary skill in the art at the time invention was made to have included Tuoriniemi’s audio command into Sadlre’s audio cassette player signal generator to provide the capability to listen an audio “while being able to receive telephone calls at the same time virtually anywhere” (Tuoriniemi, column 2, lines 22-24).

Regarding claim 9, Sadlre in view of Tuoriniemi teach all the claimed limitation as recited in claim 8, further, Sadlre teaches the audio cassette player *[command]* signal generator for outputting unique control signals (*column 1, lines 44-57, column 2, lines 47-63, column 7, lines 34-40, column 8, lines 17-22*), and further, Tuoriniemi teaches in response to corresponding audiocassette player commands (*column 1, lines 8-10, lines 25-29, column 5, lines 19-29, column 10, lines 58-60, column 12, lines 33-42*).

Regarding claim 12, Sadlre in view of Tuoriniemi teach all the claimed limitation as recited in claim 8, further, Sadlre teaches the audiocassette player *[command]* signal generator comprising (*see for example, column 1, lines 44-57, column 2, lines 47-63, column 7, lines 34-40, column 8, lines 17-22*) a cassette head actuatable switch with a switch output coupled to the control signal output of the audiocassette adapter (*see for example, column 3, lines 66-67 continued to column 4, lines 1-30*).

4. Claims 10, and 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sadlre (Sadler, U. S. No. Patent No. 6058,319) in view of Tuoriniemi (Tuoriniemi et al., U. S. No. Patent No. 5,978,689), and further in view of Clarke (Clarke, EP 1,096,420 A2).

Regarding claim 10, Sadlre in view of Tuoriniemi teach all the claimed limitation as recited in claim 8, and further, Sadlre teaches the audiocassette player signal generator

and the control signal output of the audiocassette adapter (*column 1, lines 47-57, column 2, lines 47-63, column 3, lines 24-43, column 4, lines 66-67, column 5, lines 1-3, column 6, lines 56-63, column 7, lines 34-40, column 8, lines 17-22*). However, Sadlre in view of Tuoriniemi do not specifically teach a rotational transducer.

In a related art dealing with wireless communication system, Clarke teaches the rotational transducer producing output signal for the control signal (*Abstract, lines 1-6, paragraph [001], lines 1-3, [004], lines 10-17, [005], lines 6-8, and [008], lines 4-8, [015], lines 1-7, [028], lines 1-4, the rotational transducer producing output signal (electrical signal)*).

It would have been obvious to one of ordinary skill in the art at the time invention was made to have included Clarke's rotational transducer with Tuoriniemi and Sadlre's audio cassette player system to provide a signal generator with rotational transducer for producing electrical signals that supplies control input signal for better voice recognition (Clarke, *[015], lines 1-7, [028], lines 1-4*).

Regarding claim 14, Sadlre in view of Tuoriniemi teach all the claimed limitation as recited in claim 8, further, Sadlre teaches the audiocassette player command signal generator comprising an cassette head actuatable switch (*see for example, column 1, lines 44-57, column 2, lines 47-63, column 3, lines 66-67 continued to column 4, lines 1-30, column 7, lines 34-40, column 8, lines 17-22*), the audiocassette player signal generator comprising (*see for example, column 1, lines 44-57, column 2, lines 47-63, column 7, lines 34-40, column 8, lines 17-22*), a logic device having an output coupled to the control

signal output (*see for example, Figure 3, the logic device (audio processor 36) output is being coupled to the controller*); a switch output of the audiocassette player head actuatable switch coupled to an input of the logic device (*see for example, Figure 3*). However, Sadlre in view of Tuoriniemi do not specifically teach a rotational transducer.

In a related art dealing with wireless communication system, Clarke teaches the rotational transducer producing output signal for the control signal (*Abstract, lines 1-6, paragraph [001], lines 1-3, [004], lines 10-17, [005], lines 6-8, and [008], lines 4-8, [015], lines 1-7, [028], lines 1-4, the rotational transducer producing output signal (electrical signal)*).

It would have been obvious to one of ordinary skill in the art at the time invention was made to have included Clarke's rotational transducer with Tuoriniemi and Sadlre's audio cassette player system to provide a signal generator with rotational transducer for producing electrical signals that supplies control input signal for better voice recognition (Clarke, *[015], lines 1-7, [028], lines 1-4*).

Regarding claim 15, Sadlre in view of Tuoriniemi, and in view of Clarke teach all the claimed limitation as recited in claim 14, further, Sadlre teaches the audiocassette player [command] signal generator for outputting unique control signals (*see for example, column 1, lines 44-57, column 2, lines 47-63, column 7, lines 34-40, column 8, lines 17-22*), and further, Tuoriniemi teaches in response to corresponding audiocassette player commands (*column 1, lines 8-10, lines 25-29, column 5, lines 19-29, column 10, lines 58-60, column 12, lines 33-42*).

Allowable Subject Matter

5. Claims 1-7 and 16-20 are allowable, and claims 11 and 13 are objected.

Claims 11 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art specifically Sadlre and Clarke failed to render obviousness in combination or individually and failed to anticipate individually the following underlined limitations:

“An audiocassette adapter for coupling a mobile electronic device to an audiocassette player, comprising: a cassette head coupling device; a mobile electronic device input coupled to the cassette head coupling device;
an audiocassette player command signal generator; a control signal output coupled to the audiocassette player command signal generator”, and “the audiocassette player command signal generator comprising a rotatable spur gear having a conductive portions separated by nonconductive portions, first and second slide contacts contacting the rotatable spur gear” as disclosed in claims 8 and 11.

“An audiocassette adapter for coupling a mobile electronic device to an audiocassette player, comprising: a cassette head coupling device; a mobile electronic device input coupled to the cassette head coupling device; an audiocassette player command signal generator; a control signal output coupled to the audiocassette player command signal generator”, and “the audiocassette player command signal generator comprising a momentary switch including first and second contacts, one of the first and second contacts disposed on a spring biased cassette head actuatable member” as disclosed in claims 8 and 13.

Conclusion

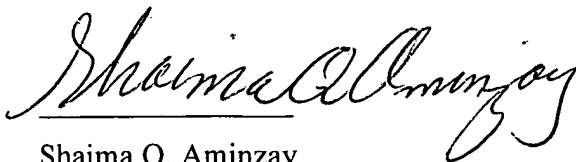
The prior art made of record considered pertinent to applicant's disclosure, see PTO-892 form.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shaima Q. Aminzay whose telephone number is 571-272-7874. The examiner can normally be reached on 7:00 AM -4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew D. Anderson can be reached on 571-272-4177. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Shaima Q. Aminzay
(Examiner)



MATTHEW ANDERSON
SUPERVISORY PATENT EXAMINER

March 26, 2007